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RAW SEQUENCE LISTING

DATE: 03/19/2003

PATENT APPLICATION: US/09/883,119B

TIME: 13:13:40

Input Set : A:\23239-301C.txt

Output Set: N:\CRF4\03192003\I883119B.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Ellington, Andrew
 4 Hess-elberth, Jay
 5 Marshall, Kris
 6 Robertson, Michael
 7 Sooter, Letha
 8 Davidson, Eric
 9 Cox, J. Colin
 10 Eardel, Timothy
 12 <120> TITLE OF INVENTION: Regulatable, Catalytically Active Nucleic Acids
 14 <130> FILE REFERENCE: 03.39-301C
 16 <140> CURRENT APPLICATION NUMBER: 09/883,119B
 C--> 17 <141> CURRENT FILING DATE: 2003-03-11
 18 <150> PRIOR APPLICATION NUMBER: 60/212,097
 20 <151> PRIOR FILING DATE: 2000-06-15
 22 <160> NUMBER OF SEQ ID NOS: 66
 24 <170> SOFTWARE: PatentIn version 3.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 129
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Artificial Sequence
 31 <214> FEATURE:
 32 <223> OTHER INFORMATION: Engineered Aptazyme
 34 <400> SEQUENCE: 1
 35 aaattcttacc caggatattat atccagctgc atgtaccat gcagagcaga ctatatctcc 60
 37 aactgtttaa aggaatttgt ctatgttttc gactacttg accctactcc ccaaagggat 120
 39 agtgcgttag 129
 41 <210> SEQ ID NO: 2
 43 <211> LENGTH: 131
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Artificial Sequence
 47 <214> FEATURE:
 48 <223> OTHER INFORMATION: Engineered Aptazyme
 50 <400> SEQUENCE: 2
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 53 aaatcccgig cttaattata ccagcatcgt cttgatgcc ttggcagata aatgcctaac 120
 55 gactatccct 131
 58 <210> SEQ ID NO: 3
 59 <211> LENGTH: 75
 60 <212> TYPE: DNA
 61 <213> ORGANISM: Artificial Sequence
 63 <214> FEATURE:
 64 <223> OTHER INFORMATION: Engineered Aptazyme
 66 <400> SEQUENCE: 3

P.3

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```

67 gataatacctt ctactatag ggtatcaagc tcagtagatg tttcttggg ttaattgagg 60
69 ccttagta t aggtg 75
72 <11> SEQ ID NO: 4
73 <11> LENGTH: 89
74 <11> TYPE: DNA
75 <11> ORGANISM: Artificial Sequence
76 <11> FEATURE:
77 <11> OTHER INFORMATION: Engineered Aptazyme
78 <11> FEATURE:
81 <11> NAME/KEY: misc_feature
82 <11> OTHER INFORMATION: Engineered Sequence
84 <11> SEQUENCE: 4
85 atttagctat atatgaacta acgtagcata tgaagcaata ttaaacggta gcattatggt 60
87 cagataaggt ccttaattt accccggaa 89
90 <11> SEQ ID NO: 5
91 <11> LENGTH: 131
92 <11> TYPE: DNA
93 <11> ORGANISM: Artificial Sequence
94 <11> FEATURE:
95 <11> OTHER INFORMATION: Engineered Aptazyme
96 <11> FEATURE:
99 <11> NAME/KEY: misc_feature
100 <11> LOCATION: (77)..(77)
101 <11> OTHER INFORMATION: n=a,c,t, or g
103 <11> FEATURE:
104 <11> NAME/KEY: misc_feature
105 <11> LOCATION: (103)..(108)
106 <11> OTHER INFORMATION: n=a,c,t, or g
108 <11> SEQUENCE: 1
109 ggttagatct aggtgaatt atactagtaa tctatctaaa cggggaacct ctctagtaga 60
W--> 111 caatcccggtg ctaaataata ccagcatcgt cttgatgcc ttggcagnta aatgcctaac 120
113 cactatctct t 131
116 <11> SEQ ID NO: 6
117 <11> LENGTH: 101
118 <11> TYPE: DNA
119 <11> ORGANISM: Artificial Sequence
120 <11> FEATURE:
121 <11> OTHER INFORMATION: Engineered Aptazyme
122 <11> FEATURE:
125 <11> NAME/KEY: misc_feature
126 <11> OTHER INFORMATION: Engineered Aptazyme
128 <11> FEATURE:
129 <11> NAME/KEY: misc_feature
130 <11> OTHER INFORMATION: Engineered Sequence
132 <11> SEQUENCE: 6
133 attactata atatgaacta acgtagcata tgaagcaata ttaaacggta gtattatggt 60
135 cagataaggt ccttaattt accccggaat tctatccagc t 101
138 <11> SEQ ID NO: 7
139 <11> LENGTH: 116

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Insert hard returns

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140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence<220><223> Engineered Aptazyme
142 <216> FEATURE:
143 <211> NAME KEY: misc_feature
144 <212> LOCATION: (37)..(87)
145 <213> OTHER INFORMATION: n=a, t, g, or c
146 <400> SEQUENCE: 7
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151 nnnnnnnnnn nnnnnnnnnn nnnnnngagg ttaggtgcct cgtgatgtcc agtcgc 116
152 <216> SEQ ID NO: 8
153 <211> LENGTH: 20
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
156 <216> FEATURE:
157 <213> OTHER INFORMATION: primer
158 <400> SEQUENCE: 8
159 ttctaatacg actcactata 20
160 <216> SEQ ID NO: 9
161 <211> LENGTH: 10
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
164 <216> FEATURE:
165 <213> OTHER INFORMATION: primer
166 <400> SEQUENCE: 9
167 ggacctcggc actcagag 16
168 <216> SEQ ID NO: 10
169 <211> LENGTH: 16
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
172 <216> FEATURE:
173 <213> OTHER INFORMATION: primer
174 <400> SEQUENCE: 10
175 ttctaatacg actcactata ggacctcggc gaaagc 36
176 <216> SEQ ID NO: 11
177 <211> LENGTH: 20
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
180 <216> FEATURE:
181 <213> OTHER INFORMATION: competitor sequence
182 <400> SEQUENCE: 11
183 gggaaugcgu ccacuuuac gaauucgagu cgagaacugg ugcgaauugc agaaaguuca 60
184 gggaaugcgu gacgagcgu 80
185 <216> SEQ ID NO: 12
186 <211> LENGTH: 80
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
189 <216> FEATURE:
190 <213> OTHER INFORMATION: competitive sequence
191 <400> SEQUENCE: 12

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210 gggaauggrau ccacaucuac gaauucguag cguagaguan gagagagcca agguacaggu      60
211 ucuccaagac uggaggaagc uu      80
212 <10> SEQ ID NO: 13
213 <11> LENGTH: 80
214 <11> TYPE: DNA
215 <11> ORGANISM: Artificial Sequence
216 <11> FEATURE:
217 <11> OTHER INFORMATION: competitive sequence
218 <400> SEQUENCE: 13
219 gggaauggrau ccacaucuac gaauucguag gggcuaaaga gggagaguu acuuaguuca      60
220 gggagaguu gggagaguu      80
221 <10> SEQ ID NO: 14
222 <11> LENGTH: 211
223 <11> TYPE: DNA
224 <11> ORGANISM: Artificial Sequence
225 <11> FEATURE:
226 <11> OTHER INFORMATION: competitive sequence
227 <400> SEQUENCE: 14
228 gggaauggrau ccacaucuac gaauucguag gggcuaaaga gggagaguu acuuaguuca      60
229 gggagaguu gggagaguu gggcuaaaga gggagaguu acuuaguuca      100
230 gggaauggrau ccacaucuac gaauucguag gggcuaaaga gggagaguu acuuaguuca      140
231 gggagaguu gggagaguu gggcuaaaga gggagaguu acuuaguuca      211
232 <10> SEQ ID NO: 15
233 <11> LENGTH: 80
234 <11> TYPE: DNA
235 <11> ORGANISM: Artificial Sequence
236 <11> FEATURE:
237 <11> OTHER INFORMATION: competitive sequence
238 <11> FEATURE:
239 <11> NAME/KEY: misc_feature
240 <222> LOCATION: (27)..(56)
241 <11> OTHER INFORMATION: n=a,c,t, or g
242 <400> SEQUENCE: 15
W--> 264 gggaauggau ccacaucuac gaauucnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnuua      60
265 ccccgagacu gacgaagcuu      80
266 <10> SEQ ID NO: 16
267 <11> LENGTH: 122
268 <11> TYPE: DNA
269 <11> ORGANISM: Artificial Sequence
270 <11> FEATURE:
271 <11> OTHER INFORMATION: Parental P6 construct
272 <400> SEQUENCE: 16
273 gggaauggrau ccacaucuac gaauucnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnuua      60
274 ccccgagacu gacgaagcuu gggcuaaaga gggagaguu acuuaguuca      100
275 gggagaguu gggagaguu gggcuaaaga gggagaguu acuuaguuca      122
276 <10> SEQ ID NO: 17
277 <11> LENGTH: 24
278 <11> TYPE: DNA
279 <11> ORGANISM: Artificial Sequence

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Input Set : A:\23239-301C.txt

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290 <295> FEATURE:
291 <295> OTHER INFORMATION: primer
292 <295> SEQUENCE: 17
293 tatctatctat tatctatctata aacg 24
297 <295> SEQ ID NO: 18
298 <295> LENGTH: 24
299 <295> TYPE: DNA
300 <295> ORGANISM: Artificial Sequence
301 <295> FEATURE:
302 <295> OTHER INFORMATION: primer
303 <295> SEQUENCE: 19
304 aacgaatttc tatccagcttg catg 24
307 <295> SEQ ID NO: 19
308 <295> LENGTH: 94
309 <295> TYPE: DNA
310 <295> ORGANISM: Artificial Sequence
311 <295> FEATURE:
312 <295> OTHER INFORMATION: oligonucleotide
313 <295> SEQUENCE: 14
314 gactgagtat aaggtgaactt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60
315 caatcccgctg cttaaattgat aacgactata cttt 94
317 <295> SEQ ID NO: 20
318 <295> LENGTH: 131
319 <295> TYPE: DNA
320 <295> ORGANISM: Artificial Sequence
321 <295> FEATURE:
322 <295> OTHER INFORMATION: oligonucleotide
323 <295> SEQUENCE: 20
324 gactgagtat aaggtgaactt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60
325 caatcccgctg cttaaattgat aacgactata cttt 100
326 gactatccct t 131
329 <295> SEQ ID NO: 21
330 <295> LENGTH: 133
331 <295> TYPE: DNA
332 <295> ORGANISM: Artificial Sequence
333 <295> FEATURE:
334 <295> OTHER INFORMATION: oligonucleotide
335 <295> SEQUENCE: 21
336 gactgagtat aaggtgaactt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60
337 caatcccgctg cttaaattgat aacgactata cttt 100
338 aagactatac ctt 133
339 <295> SEQ ID NO: 22
340 <295> LENGTH: 119
341 <295> TYPE: DNA
342 <295> ORGANISM: Artificial Sequence
343 <295> FEATURE:
344 <295> OTHER INFORMATION: oligonucleotide
345 <295> SEQUENCE: 22
346 gactgagtat aaggtgaactt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60
347 caatcccgctg cttaaattgat aacgactata cttt 100
348 aagactatac ctt 133
349 <295> SEQ ID NO: 23
350 <295> LENGTH: 119
351 <295> TYPE: DNA
352 <295> ORGANISM: Artificial Sequence
353 <295> FEATURE:
354 <295> OTHER INFORMATION: oligonucleotide
355 <295> SEQUENCE: 23
356 gactgagtat aaggtgaactt atacttgtaa tctatctaaa cgggggaacct ctctagtaga 60

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/883,119B

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Input Set : A:\23239-301C.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 77,108
Seq#:7; N Pos. 37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56
Seq#:7; N Pos. 57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76
Seq#:7; N Pos. 77,78,79,80,81,82,83,84,85,86
Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:15; N Pos. 47,48,49,50,51,52,53,54,55,56
Seq#:35; N Pos. 27,38,39,40,41,42,43,44,45,46,47
Seq#:36; N Pos. 14,15,16,17
Seq#:37; N Pos. 39,40,41,42,43
Seq#:41; N Pos. 28
Seq#:43; N Pos. 31
Seq#:44; N Pos. 32